

MSB-7268.txt
SEQUENCE LISTING

<110> Bayer AG
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<120> METHODS FOR MODULATING ANGIOGENESIS

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<150> EP 99113502.1

<151> 1999-07-02

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<170> PatentIn Ver. 2.1

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<211> 2173

<212> DNA

<213> Homo sapiens

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 35 40 45
 Glu Ser Gln Asp Lys Cys Thr Tyr Thr Phe Ile Val Pro Gln Gln Arg
 50 55 60
 Val Thr Gly Ala Ile Cys Val Asn Ser Lys Glu Pro Glu Val Leu Leu
 65 70 75 80
 Glu Asn Arg Val His Lys Gln Glu Leu Glu Leu Leu Asn Asn Glu Leu
 85 90 95
 Leu Lys Gln Lys Arg Gln Ile Glu Thr Leu Gln Gln Leu Val Lys Val
 100 105 110
 Asp Gly Gly Ile Val Ser Glu Val Lys Leu Leu Arg Lys Glu Ser Arg
 115 120 125
 Asn Met Asn Ser Arg Val Thr Gln Leu Tyr Met Gln Leu Leu His Glu
 130 135 140
 Ile Ile Arg Lys Arg Asp Asn Ala Leu Glu Leu Ser Gln Leu Glu Asn
 145 150 155 160
 Arg Ile Leu Asn Gln Thr Ala Asp Met Leu Gln Leu Ala Ser Lys Tyr
 165 170 175
 Lys Asp Leu Glu His Lys Tyr Gln His Leu Ala Thr Leu Ala His Asn
 180 185 190
 Gln Ser Glu Ile Ile Ala Gln Leu Glu Glu His Cys Gln Arg Val Pro
 195 200 205
 Ser Ala Arg Pro Val Pro Gln Pro Pro Pro Ala Ala Pro Pro Arg Val
 210 215 220
 Tyr Gln Pro Pro Thr Tyr Asn Arg Ile Ile Asn Gln Ile Ser Thr Asn
 225 230 235 240
 Glu Ile Gln Ser Asp Gln Asn Leu Lys Val Leu Pro Pro Pro Leu Pro
 245 250 255
 Thr Met Pro Thr Leu Thr Ser Leu Pro Ser Ser Thr Asp Lys Pro Ser
 260 265 270
 Gly Pro Trp Arg Asp Cys Leu Gln Ala Leu Glu Asp Gly His Asp Thr

275 280 285
 Ser Ser Ile Tyr Leu Val Lys Pro Glu Asn Thr Asn Arg Leu Met Gln
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 Val Trp Cys Asp Gln Arg His Asp Pro Gly Gly Trp Thr Val Ile Gln
 305 310 315 320
 Arg Arg Leu Asp Gly Ser Val Asn Phe Phe Arg Asn Trp Glu Thr Tyr
 325 330 335
 Lys Gln Gly Phe Gly Asn Ile Asp Gly Glu Tyr Trp Leu Gly Leu Glu
 340 345 350
 Asn Ile Tyr Trp Leu Thr Asn Gln Gly Asn Tyr Lys Leu Leu Val Thr
 355 360 365
 Met Glu Asp Trp Ser Gly Arg Lys Val Phe Ala Glu Tyr Ala Ser Phe
 370 375 380
 Arg Leu Glu Pro Glu Ser Glu Tyr Tyr Lys Leu Arg Leu Gly Arg Tyr
 385 390 395 400
 His Gly Asn Ala Gly Asp Ser Phe Thr Trp His Asn Gly Lys Gln Phe
 405 410 415
 Thr Thr Leu Asp Arg Asp His Asp Val Tyr Thr Gly Asn Cys Ala His
 420 425 430
 Tyr Gln Lys Gly Gly Trp Trp Tyr Asn Ala Cys Ala His Ser Asn Leu
 435 440 445
 Asn Gly Val Trp Tyr Arg Gly Gly His Tyr Arg Ser Arg Tyr Gln Asp
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 35 40 45
 Glu His Asp Gly Asn Cys Arg Glu Ser Thr Thr Asp Gln Tyr Asn Thr
 50 55 60
 Asn Ala Leu Gln Arg Asp Ala Pro His Val Glu Pro Asp Phe Ser Ser
 65 70 75 80

Gln Lys Leu Gln His₈₅ Leu Glu His Val₉₀ Met Glu Asn Tyr Thr Gln₉₅ Trp
 Leu Gln Lys₁₀₀ Leu Glu Asn Tyr Ile Val₁₀₅ Glu Asn Met Lys Ser Glu Met
 Ala Gln Ile₁₁₅ Gln Gln Asn Ala Val₁₂₀ Gln Asn His Thr Ala Thr Met Leu
 Glu Ile₁₃₀ Gly Thr Ser Leu Leu₁₃₅ Ser Gln Thr Ala Glu Gln Thr Arg Lys
 Leu Thr Asp Val₁₄₅ Glu Thr₁₅₀ Gln Val Leu Asn Gln₁₅₅ Thr Ser Arg Leu Glu
 Ile Gln Leu Leu₁₆₅ Glu Asn Ser Leu Ser Thr₁₇₀ Tyr Lys Leu Glu Lys₁₇₅ Gln
 Leu Leu Gln₁₈₀ Gln Thr Asn Glu Ile Leu₁₈₅ Lys Ile His Glu Lys Asn Ser
 Leu Leu Glu₁₉₅ His Lys Ile Leu Glu₂₀₀ Met Glu Gly Lys His₂₀₅ Lys Glu Glu
 Leu Asp Thr₂₁₀ Leu Lys Glu Glu₂₁₅ Lys Glu Asn Leu Gln₂₂₀ Gly Leu Val Thr
 Arg Gln Thr Tyr Ile₂₂₅ Ile₂₃₀ Gln Glu Leu Glu Lys₂₃₅ Gln Leu Asn Arg Ala₂₄₀
 Thr Thr Asn Asn Ser₂₄₅ Val Leu Gln Lys Gln₂₅₀ Gln Leu Glu Leu Met Asp
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 Lys Gly Gly₂₇₅ Lys Arg Glu Glu Glu₂₈₀ Lys Pro Phe Arg Asp₂₈₅ Cys Ala Asp
 Val Tyr Gln Ala Gly Phe Asn₂₉₅ Lys Ser Gly Ile Tyr Thr Ile Tyr Ile
 Asn Asn Met Pro Glu Pro₃₁₀ Lys Lys Val Phe Cys₃₁₅ Asn Met Asp Val Asn
 Gly Gly Gly Trp Thr₃₂₅ Val Ile Gln His Arg Glu Asp Gly Ser Leu Asp
 Phe Gln Arg Gly Trp Lys Glu Tyr Lys₃₄₅ Met Gly Phe Gly Asn Pro Ser
 Gly Glu Tyr Trp Leu Gly Asn Glu₃₆₀ Phe Ile Phe Ala Ile Thr Ser Gln
 Arg Gln Tyr Met Leu Arg Ile₃₇₅ Glu Leu Met Asp Trp Glu Gly Asn Arg
 Ala Tyr Ser Gln Tyr Asp₃₉₀ Arg Phe His Ile Gly Asn Glu Lys Gln Asn
 Tyr Arg Leu Tyr Leu₄₀₅ Lys Gly His Thr Gly Thr Ala Gly Lys Gln Ser
 415

Ser Leu Ile Leu His Gly Ala Asp Phe Ser Thr Lys Asp Ala Asp Asn
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 435 440 445
 Phe Asp Ala Cys Gly Pro Ser Asn Leu Asn Gly Met Phe Tyr Thr Ala
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 <212> PRT
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 35 40 45
 Glu Met Asp Asn Cys Arg Ser Ser Ser Ser Pro Tyr Val Ser Asn Ala
 50 55 60
 Val Gln Arg Asp Ala Pro Leu Glu Tyr Asp Asp Ser Val Gln Arg Leu
 65 70 75 80
 Gln Val Leu Glu Asn Ile Met Glu Asn Asn Thr Gln Trp Leu Met Lys
 85 90 95
 Leu Glu Asn Tyr Ile Gln Asp Asn Met Lys Lys Glu Met Val Glu Ile
 100 105 110
 Gln Gln Asn Ala Val Gln Asn Gln Thr Ala Val Met Ile Glu Ile Gly
 115 120 125
 Thr Asn Leu Leu Asn Gln Thr Ala Glu Gln Thr Arg Lys Leu Thr Asp
 130 135 140
 Val Glu Ala Gln Val Leu Asn Gln Thr Thr Arg Leu Glu Leu Gln Leu
 145 150 155 160
 Leu Glu His Ser Leu Ser Thr Asn Lys Leu Glu Lys Gln Ile Leu Asp
 165 170 175
 Gln Thr Ser Glu Ile Asn Lys Leu Gln Asp Lys Asn Ser Phe Leu Glu
 180 185 190
 Lys Lys Val Leu Ala Met Glu Asp Lys His Ile Ile Gln Leu Gln Ser
 195 200 205

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Ile Lys Glu Glu Lys Asp Gln Leu Gln Val Leu Val Ser Lys Gln Asn
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 Ser Ile Ile Glu Glu Leu Glu Lys Lys Ile Val Thr Ala Thr Val Asn
 225 230 235 240
 Asn Ser Val Leu Gln Lys Gln Gln His Asp Leu Met Glu Thr Val Asn
 245 250 255
 Asn Leu Leu Thr Met Met Ser Thr Ser Asn Ser Ala Lys Asp Pro Thr
 260 265 270
 Val Ala Lys Glu Glu Gln Ile Ser Phe Arg Asp Cys Ala Glu Val Phe
 275 280 285
 Lys Ser Gly His Thr Thr Asn Gly Ile Tyr Thr Leu Thr Phe Pro Asn
 290 295 300
 Ser Thr Glu Glu Ile Lys Ala Tyr Cys Asp Met Glu Ala Gly Gly Gly
 305 310 315 320
 Gly Trp Thr Ile Ile Gln Arg Arg Glu Asp Gly Ser Val Asp Phe Gln
 325 330 335
 Arg Thr Trp Lys Glu Tyr Lys Val Gly Phe Gly Asn Pro Ser Gly Glu
 340 345 350
 Tyr Trp Leu Gly Asn Glu Phe Val Ser Gln Leu Thr Asn Gln Gln Arg
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 Tyr Val Leu Lys Ile His Leu Lys Asp Trp Glu Gly Asn Glu Ala Tyr
 370 375 380
 Ser Leu Tyr Glu His Phe Tyr Leu Ser Ser Glu Glu Leu Asn Tyr Arg
 385 390 395 400
 Ile His Leu Lys Gly Leu Thr Gly Thr Ala Gly Lys Ile Ser Ser Ile
 405 410 415
 Ser Gln Pro Gly Asn Asp Phe Ser Thr Lys Asp Gly Asp Asn Asp Lys
 420 425 430
 Cys Ile Cys Lys Cys Ser Gln Met Leu Thr Gly Gly Trp Trp Phe Asp
 435 440 445
 Ala Cys Gly Pro Ser Asn Leu Asn Gly Met Tyr Tyr Pro Gln Arg Gln
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 35 40 45
 Pro Glu Pro Asp Ile Cys Gln Leu Ala Pro Thr Ala Ala Pro Glu Ala
 50 55 60
 Leu Gly Gly Ser Asn Ser Leu Gln Arg Asp Leu Pro Ala Ser Arg Leu
 65 70 75 80
 His Leu Thr Asp Trp Arg Ala Gln Arg Ala Gln Arg Ala Gln Arg Val
 85 90 95
 Ser Gln Leu Glu Lys Ile Leu Glu Asn Asn Thr Gln Trp Leu Leu Lys
 100 105 110
 Leu Glu Gln Ser Ile Lys Val Asn Leu Arg Ser His Leu Val Gln Ala
 115 120 125
 Gln Gln Asp Thr Ile Gln Asn Gln Thr Thr Thr Met Leu Ala Leu Gly
 130 135 140
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 145 150 155 160
 Val Glu Ala Gln Val Leu Asn Gln Thr Leu His Met Lys Thr Gln Met
 165 170 175
 Leu Glu Asn Ser Leu Ser Thr Asn Lys Leu Glu Arg Gln Met Leu Met
 180 185 190
 Gln Ser Arg Glu Leu Gln Arg Leu Gln Gly Arg Asn Arg Ala Leu Glu
 195 200 205
 Thr Arg Leu Gln Ala Leu Glu Ala Gln His Gln Ala Gln Leu Asn Ser
 210 215 220
 Leu Gln Glu Lys Arg Glu Gln Leu His Ser Leu Leu Asp His Gln Thr
 225 230 235 240
 Gly Thr Leu Ala Asn Leu Lys His Asn Leu His Ala Leu Ser Ser Asn
 245 250 255
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 260 265 270
 Arg Leu Val Arg Ile Val Ala Gln Asp Gln His Pro Val Ser Leu Lys
 275 280 285
 Thr Pro Lys Pro Val Phe Gln Asp Cys Ala Glu Ile Lys Arg Ser Gly
 290 295 300
 Val Asn Thr Ser Gly Val Tyr Thr Ile Tyr Glu Thr Asn Met Thr Lys
 305 310 315 320
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325

335

Leu Ile Gln His Arg Glu Asp Gly Ser Val Asn Phe Gln Arg Thr Trp
340 345 350
Glu Glu Tyr Lys Glu Gly Phe Gly Asn Val Ala Arg Glu His Trp Leu
355 360 365
Gly Asn Glu Ala Val His Arg Leu Thr Ser Arg Thr Ala Tyr Leu Leu
370 375 380
Arg Val Glu Leu His Asp Trp Glu Gly Arg Gln Thr Ser Ile Gln Tyr
385 390 395 400
Glu Asn Phe Gln Leu Gly Ser Glu Arg Gln Arg Tyr Ser Leu Ser Val
405 410 415
Asn Asp Ser Ser Ser Ala Gly Arg Lys Asn Ser Leu Ala Pro Gln
420 425 430
Gly Thr Lys Phe Ser Thr Lys Asp Met Asp Asn Asp Asn Cys Met Cys
435 440 445
Lys Cys Ala Gln Met Leu Ser Gly Gly Trp Trp Phe Asp Ala Cys Gly
450 455 460
Leu Ser Asn Leu Asn Gly Ile Tyr Tyr Ser Val His Gln His Leu His
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<213> Homo sapiens

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Leu Pro Lys Ser Glu Pro Cys Pro Pro Gly Pro Glu Val Ser Arg Asp
50 55 60
Ser Asn Thr Leu Gln Arg Glu Ser Leu Ala Asn Pro Leu His Leu Gly
65 70 75 80
Lys Leu Pro Thr Gln Gln Val Lys Gln Leu Glu Gln Ala Leu Gln Asn
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Arg Ser Lys Leu Glu Gln Val Gln Gln Gln Met Ala Gln Asn Gln Thr
 115 120 125
 Ala Pro Met Leu Glu Leu Gly Thr Ser Leu Leu Asn Gln Thr Thr Ala
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 Gln Ile Arg Lys Leu Thr Asp Met Glu Ala Gln Leu Leu Asn Gln Thr
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 Ser Arg Met Asp Ala Gln Met Pro Glu Thr Phe Leu Ser Thr Asn Lys
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 Gly Gln Asn Ser Ala Leu Glu Lys Arg Leu Gln Ala Leu Glu Thr Lys
 195 200 205
 Gln Gln Glu Glu Leu Ala Ser Glu Leu Ser Lys Lys Ala Lys Leu Leu
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 225 230 235 240
 Leu Arg Gly Val Arg His Asn Ser Ser Leu Leu Gln Asp Gln Gln His
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 Ser Leu Arg Gln Leu Leu Val Leu Leu Arg His Leu Val Gln Glu Arg
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 Ala Asn Ala Ser Ala Pro Ala Phe Ile Met Ala Gly Glu Gln Val Phe
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 Gln Asp Cys Ala Glu Ile Gln Arg Ser Gly Ala Ser Ala Ser Gly Phe
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 Tyr Thr Ile Gln Val Ser Asn Ala Thr Lys Pro Arg Lys Val Phe Cys
 305 310 315 320
 Asp Leu Gln Ser Ser Gly Gly Arg Val Thr Leu Ile Gln Arg Arg Glu
 325 330 335
 Asn Gly Thr Val Asn Phe Gln Arg Asn Val Lys Asp Tyr Lys Gln Gly
 340 345 350
 Phe Gly Asp Pro Ala Gly Glu His Val Glu Leu Gly Asn Glu Val Val
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 His Gln Leu Thr Arg Arg Ala Ala Tyr Ser Leu Arg Val Glu Leu Gln
 370 375 380
 Asp Val Glu Gly His Glu Ala Tyr Ala Gln Tyr Glu His Phe His Leu
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 Gly Ser Glu Asn Gln Leu Tyr Arg Leu Ser Val Val Gly Tyr Ser Gly
 405 410 415
 Ser Ala Gly Arg Gln Ser Ser Leu Val Leu Gln Asn Thr Ser Phe Ser
 420 425 430
 Thr Leu Asp Ser Asp Asn Asp His Cys Leu Cys Lys Cys Ala Gln Val
 435 440 445

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Met Ser Gly Gly Trp Trp Phe Asp Ala Cys Gly Leu Ser Asn Leu Asn
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Asp Val Tyr Tyr His Ala Pro Asp Asn Lys Tyr Lys Met Asp Gly Glu
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Met Met Glu Arg Pro Leu Asp Glu
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